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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/756,156	01/13/2004	Wesley N. Cobb	ASI.01	3326	
25871	7590 08/08/2005		EXAMINER		
SWANSON & BRATSCHUN L.L.C.			MILLER, ROSE MARY		
SUITE 330	CENTER DRIVE		ART UNIT	PAPER NUMBER	
HIGHLANDS RANCH, CO 80129			2856		
			DATE MAILED: 08/08/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
Office Action Commence	10/756,156	COBB, WESLEY N	۱. (	(gn)
Office Action Summary	Examiner	Art Unit		
	Rose M. Miller	2856		
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the c	orrespondence add	iress	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period with Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days II apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this cor O (35 U.S.C. § 133).		on.
Status				
1) Responsive to communication(s) filed on 1/13/0	04.	•		
· _ · · · · · · · · · · · · · · · · · ·	action is non-final.			
3) Since this application is in condition for allowant	ce except for formal matters, pro	secution as to the	merits	is
closed in accordance with the practice under Ex	c parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.				
4a) Of the above claim(s) is/are withdraw	n from consideration			
5) Claim(s) is/are allowed.				
6) Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) 1-26 are subject to restriction and/or e	lection requirement.			
Application Papers				
_				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce		- - - - -		
Applicant may not request that any objection to the d				
Replacement drawing sheet(s) including the correction	• • • • • • • • • • • • • • • • • • • •	• •	R 1.121	(d)
11) The oath or declaration is objected to by the Exa	• • • • • • • • • • • • • • • • • • • •			(-).
Priority under 35 U.S.C. § 119				
·		(4) == (5)		
12) Acknowledgment is made of a claim for foreign part a) All b) Some * c) None of:	oriority under 35 U.S.C. § 119(a)	-(a) or (t).		
1. ☐ Certified copies of the priority documents	have been received			
2. Certified copies of the priority documents		on No	s	
3. ☐ Copies of the certified copies of the priori			Stage	
application from the International Bureau	•		-1-5-	
* See the attached detailed Office action for a list of	· · · · ·	d.		
·				
Attachment(s)				
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal P		-152)	
Paper No(s)/Mail Date	6)			

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## **DETAILED ACTION**

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## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-24, drawn to a method and apparatus for determining the composition of a material, classified in class 73, subclass 597.
- II. Claims 25-26, drawn to an ultrasonic apparatus with a specific relationship between the ultrasonic transmitter and the ultrasonic receiver of the system, classified in class 73, subclass 602.
- 2. The inventions are distinct, each from the other because of the following reasons:
- 3. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination can be performed with pulse echo ultrasonic transducers. The subcombination has separate utility such as determining the presence of specific defects in an article under inspection.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. If group I is elected above, then the following election of species is applicable:
- 6. This application contains claims directed to the following patentably distinct species of the claimed invention:
- I (a) measuring the attenuation of the ultrasonic signals to derive an attenuation curve as a function of change in the ultrasonic wave frequency; and

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I (b) measuring the phase of the ultrasonic signals to derive a phase curve as a function of change in the ultrasonic wave frequency.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 18-24 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

7. A telephone call was made to James Brown on 29 July 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rose M. Miller whose telephone number is 571-272-2199. The examiner can normally be reached on Monday - Friday, 7:30 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMM

29 July 2005

HEZRON WILLIAMS

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800